

GenCore version 5.1.3  
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 23, 2002, 19:00:33 ; Search time 179 Seconds  
(without alignments)

3347.504 Million cell updates/sec

Title: US-09-728-446-819

Perfect score: 349

Sequence: 1 tatlataatgaacnctg.....gnntggccttgaagttg 349

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1736436 segs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : N\_Geneseq\_032802.\*

- 1: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT.\*
- 2: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT.\*
- 3: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT.\*
- 4: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT.\*
- 5: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT.\*
- 6: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT.\*
- 7: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT.\*
- 8: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1987.DAT.\*
- 9: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1988.DAT.\*
- 10: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1989.DAT.\*
- 11: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1990.DAT.\*
- 12: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT.\*
- 13: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT.\*
- 14: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT.\*
- 15: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT.\*
- 16: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT.\*
- 17: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT.\*
- 18: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT.\*
- 19: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT.\*
- 20: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT.\*
- 21: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT.\*
- 22: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT.\*
- 23: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.\*
- 24: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	130.6	37.4	1209	19	AAV32579 Human high voltage
2	130.6	37.4	1393	18	AAV94469 Human Fchd545 gene
3	130.6	37.4	1393	21	AAZ50709 Nucleotide sequenc
4	130.6	37.4	1414	20	AAV57719 Voltage-dependent
5	105	32.1	1672	23	AAV74839 DNA encoding novel
6	105	30.1	1672	23	AAV74840 DNA encoding novel
7	77.8	22.3	435	21	AAV74836 Human secreted pro
8	57.8	16.6	473	23	AAV74836 DNA encoding novel
9	51	14.6	26698	17	AAV74836 Mouse synecan-1 g

10	51	14.6	26700	15	AAV67902	Syndecan gene. Mu
11	51	14.6	26700	19	AAV15946	Mouse syndecan gen
12	51	14.6	26700	20	AAV81283	Mouse syndecan-1 e
13	50	14.3	178	20	AAV85695	Novel cDNA sequenc
14	50	14.3	5889	20	AAV84338	Mouse A-myb genom
15	50	14.3	6094	22	AAV63435	Murine CD39-L2 gen
16	49.4	14.2	14775	24	AB199535	Mouse Ischaemic co
17	49.4	14.2	36901	20	AAZ23892	Murine LOBO genom
18	49.4	14.2	38886	20	AAZ23897	Murine LOBO genom
19	49.2	14.1	14775	24	AB199535	Mouse Ischaemic co
20	48.4	13.9	2623	22	AAV17484	Mouse glucokinase
21	47.8	13.7	5318	21	AAV77094	Human ORFX ORF2649
22	46.8	13.4	35828	21	AAV29063	Murine TGF-beta b1
23	46.8	13.4	90050	21	AAZ91925	Wild type (C57BL/6
24	46.2	13.2	1459	22	AAV55245	Nucleotide sequenc
25	45.2	13.0	6789	22	AAV63436	Murine CD39-L4 gen
26	45.2	13.0	8212	24	AB199884	Mouse Ischaemic co
27	45.2	13.0	13499	24	AAV22571	Mouse FDRG (fibrin
28	44.6	12.8	48974	20	AAV5300	Mouse Presentin-1
29	44.2	12.7	60	22	AAV81610	OST7 clone fragmen
30	44.2	12.7	60	22	AAV81611	Murine 45S pre rRN
31	43.6	12.5	4048	22	AAV24196	Mouse ageing inh1b
32	43.6	12.5	49999	20	AAZ23881	Murine LOBO genom
33	43.6	12.5	49999	20	AAZ23886	Murine LOBO genom
34	43	12.3	433	22	AAV7130	Proliferative glom
35	42.8	12.3	13146	18	AAV6719	Murine RENT1 genom
36	42.6	12.2	1104	20	AAZ10360	Partial genomic se
37	42.6	12.2	4612	24	AAV99462	Mouse Ischaemic co
38	42.4	12.1	6480	19	AAV99572	Mouse Friend virus
39	42	12.0	4580	17	AAV32034	Proliferation-inh1
40	42	12.0	90050	21	AAZ91925	Wild type (C57BL/6
41	41.4	11.9	8114	24	AAV51581	pPL5 fragment cont
42	41.4	11.9	8114	21	AAV87705	Mouse plakophilin-
43	41.2	11.8	467	23	AAV74838	DNA encoding novel
44	41.2	11.8	1445	22	AAV2696	Murine variant zal
45	40.6	11.6	37339	22	AAV515612	Mouse osteocalcin

## ALIGNMENTS

RESULT 1					
AAV32579	AAV32579	standard; cDNA: 1209 BP.			
ID	AAV32579;				
XX	AAV32579;				
AC					
XX					
DT	23-SEP-1998	(first entry)			
XX					
DE	Human high voltage-dependent anion channel cDNA.				
XX					
KW	HACH: human high voltage-dependent anion channel; genomic mapping;				
KW	drug screening; proliferation disease; rheumatoid arthritis; tumour;				
KW	immuno-disgnosis; hypothalamus cDNA library; ss.				
XX					
OS	Homo sapiens.				
XX					
FH	Key	Location/Qualifiers			
FT	CDS	94..945			
FT		/*tag= a			
FT		/product= HACH			
XX					
PM	US5780235-A.				
XX					
PD	14-JUL-1998.				
XX					
PF	04-OCT-1996;	96US-0726227.			
XX					
PR	04-OCT-1996;	96US-0726227.			
XX					
PA	(INCY-) INCYTE PHARM INC.				
XX					
PI	Bandman O, Hillman JL;				



	RESULT	3
ID	AAZ50709	standard: DNA; 1393 BP.
XX		
AC	AAZ50709;	
XX		
DIT	31-MAY-2000	(first entry)
XX		
DE	Nucleotide sequence of human fchd545 gene.	
XX		
KM	fchd545 gene; human; cardiovascular disease; oncogenic disorder;	
KW	diabetic retinopathy; fibroproliferative disorder; arteriosclerosis;	
KX	TGF-beta signalling pathway; TGF; Transforming growth factor;	
KV	pancreatic cancer; angiogenesis; inflammation; fibrosis; tumour growth;	
KN	vascularisation; cyostatic; antidiabetic; ophthalmological; ds.	
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	CDS	/tag= a /product= "fcdh545 protein"
XX		
PX	WO200006206-AI.	
PD	10-FEB-2000.	
PP	30-JUL-1999;	99MO-US17394.
PR	30-JUL-1998;	98US-0126640.
PA	(MILL-) MILLENNIUM PHARM INC.	
PI	Falb DA:	
DR	WIPI: 2000-205414/18. P-PADB: AAY45015.	
PT	Identifying substances for ameliorating symptoms of fibroproliferative diseases or oncogenic related disorders -	
PS	Examples: Fig 3; 21app; English.	
CC	The patent discloses methods for the treatment and diagnosis of cardiovascular diseases by novel human genes which are differentially expressed in different cardiovascular disease states. Compositions which can modify TGF-beta signalling pathway are identified by screening. These are used therapeutically to treat fibroproliferative and oncogenic disorders, especially TGF (Transforming growth factor)-beta related cancers, angiogenesis, inflammation, fibrositis, tumour growth and vascularization. The present sequence is fchd545 gene which is down-regulated in endothelial cells subjected to shear stress can be used to design cardiovascular disease treatment strategies. Depending on whether the down-regulation has a pathogenic or protective effect treatment methods can be designed to increase or decrease the activity of the protein product of the gene.	
SQ	Sequence 1393 BP; 406 A; 269 C; 333 G; 385 T; 0 other:	
	Query Match	37.4%; Score 130.6; DB 21; Length 1393; Best Local Similarity 72.6%; Pred.No.1.ee-34; Matches 191; Conservative 0; Mismatches 68; Indels 4; Gaps 3.
OY	88 ATGGGCTGCAGTATGGCTCACTCACCANANANGAGTAGCAGCGTAAGTTGGG 147 +   DB 276 AAGGTGTGAATTACTTGACTTCCTACCAGGAATGACAACAGCATACTCTAAGG 335  148 ACAGACCTTTTTTNGAGAATNTGCATGCCCTGANSGCTTMAAACCTGCATCCAT 207       +           +                               336 ACAAGAATCTCTGGAGATAAG-TTGGCTGAAGGTTGAAGAACTGACTTGATACCAT 394	

OY	208	ATTTTACCAATCNCATCCNATCTTTTAGTCCCATTTTCCGGCCTCTATTGCCAGNAT	267
Db	395	ATTCTTACCGAACAACAGAA--ACAAGAGTGGGAAATTGAAGGCCCTCCATTAAACGGAG	452
OY	268	TGNTNNATCTCGGCACGTAATGTTGATTTNNATTTTCTGGACGACCACTATGGT-C	326
Db	453	TGTTTAACTGTGGCAGTAAGTTGATTAATATTTCTGGACCAACATCACTATGGCTGG	512
OY	327	TCTGNTTGGCCTTGAAGCTTG	349
Db	513	GCTGTGTGGCTTCGAAGGGTG	535

RESULT 4  
AAx57719  
ID AAX57719 standard; cDNA; 1414 BP.

AC	AA57719;
XX	
DT	16-JUL-1999 (first entry)

DE Voltage-dependent anion channel CBMAD07 coding sequence.

KM Human; voltage-dependent anion channel; CBMA007; antibody; antagonist; ss.  
KM cancer; spontaneous abortion; infertility; ss.

OS Homo sapiens.

PN WO9921990-A1.

PD 06-MAY-1999.

PF 29-OCT-1997; 97WO-CN00118.

PR 29-OCT-1997; 97WO-CN00118.

PA (UYSH-) UNIV SHANGHAI SECOND MEDICAL.

PI Wang Y, Zhang Q:

DR WPI; 1999-303016/25.

XX

PT the treatment and

PS Claim 4; Page 7-8; 31pp; English.

CC This sequence represent the coding sequence for a novel human

CC antibodies and (ant)agonists to it can be used for treating, e.g.

XX

Query Match	37.48;	Score 130.6;	DB 20;	Length 1414;
Best Local Similarity	72.68;	Pred. No. 1.5e-34;		
Matches 191; Conservative	0;	Mismatches 68;	Indels 4;	Gaps 3;

QY 88 ATGGGCTGCTATGGGCTCACCCTCACCANANGNGAGTACNGACGGTACTCTTGGG 14

Db 286 AAGTCTGTA CTATGGACTTACCTT CACCCAGAA TGGACACAGACA TACTCTAGG 34

QY 148 ACAGACCTTTTTCNGACAATNTGCATGGCTGANGGTTNAACCTGACTCTCGATACCAT 20

Db 346 ACAGAAATCTCTGGGAGATAAG-TTGGCTGAAGGTTGAACCTGACTCTTGATACCAT 400

QY 208 ATTTNACCATNCNCTCCNATCCTTTAGTGCATTTCCCGGCTCTCTATTGCCNGAT 26

Db 405 ATTTGTACCGAACACAGGAA--AGAAGAGTGGGAATTGAAGGCCCTCTATAAACGGGAT 466

QY 268 TGNTNNANTCTCGGCAGTAATGTTGATNTNNATTTTCTGGACCGACCATCTATGGCT-G 322

DB 463 TCTTTAGTGTGGCAGTAATGTGATATAGATTTTCTGACCAACATCTATGGCTGG 522  
OY 327 TCTGNNTTGGCCTTTGAAGCTTG 349  
DB 523 GCTGTGTGGCCTTCGAAGGCTG 545

## RESULT 5

AAS74839 standard; cDNA; 1062 BP.

AAS74839;

13-FEB-2002 (first entry)

DNA encoding novel human diagnostic protein #10643.

Human; chromosome mapping; gene mapping; gene therapy; forensic;  
food supplement; medical imaging; diagnostic; genetic disorder; ss.

Homo sapiens.

WO200175067-A2.

11-OCT-2001.

30-MAR-2001; 2001WO-US08631.

31-MAR-2000; 2000US-0540217.

23-AUG-2000; 2000US-0649167.

(HYSE-) HYSEQ INC.

Dmanac RT, Liu C, Tang YT;

WPI: 2001-639362/73.

P-PSDB: ABG10652.

New isolated polynucleotide and encoded polypeptides, useful in

diagnostics, forensics, gene mapping, identification of mutations

responsible for genetic disorders or other traits and to assess

bioldiversity -

Claim 1; SEQ ID No 10643; 103pp; English.

The invention relates to isolated polynucleotide (I) and

polypeptide (II) sequences. (I) is useful as hybridisation probes,

polymerase chain reaction (PCR) primers, oligomers, and for chromosome

and gene mapping, and in recombinant production of (II). The

polynucleotides are also used in diagnostics as expressed sequence tags

for identifying expressed genes. (I) is useful in gene therapy techniques

to restore normal activity of (II) or to treat disease states involving

(II). (II) is useful for generating antibodies against it, detecting or

quantitating a polypeptide in tissue, as molecular weight markers and as

a food supplement. (II) and its binding partners are useful in medical

imaging of sites expressing (II). (I) and (II) are useful for treating

disorders involving aberrant protein expression or biological activity.

The polypeptide and polynucleotide sequences have applications in

diagnostics, forensics, gene mapping, identification of mutations

responsible for genetic disorders or other traits to assess bioldiversity

and to produce other types of data and products dependent on DNA and

amino acid sequences. AAS64197-AAS94564 represent novel human

diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed

specification, but was obtained in electronic format directly from WIPO

at ftp.wipo.int/pub/published\_pcl\_sequences.

Sequence 1062 BP; 264 A; 264 C; 291 G; 243 T; 0 other;

Query Match 34.7%; Score 121; DB 23; Length 1062;

Best Local Similarity 70.3%; Pred. No. 2.6e-31;

Matches 185; Conservative 0; Mismatches 74; Indels 4; Gaps 3;

OY 88 ATGGGCTGCMACTATGG-CTCACCTTACCCANANGNGAGTAGCAGCTACTTGGG 147  
DB 187 AAGGTCTGTAAGTATGAGCTTCACTTCACTCAAAAACGACACAGACATACTTGGG 246  
OY 148 ACAGACCTTTTGTGAGCATATGTCATGCGTGGANGGTTTAAACGTACTCTGATACCAT 207  
DB 247 ACAGAAATCTCTTGGAGAAATAAG-TTGGCTAAAGGTTGAAACGTAGACTTGATACCAT 305  
OY 208 ATTTTACCATTCNCTCCATCTTTTGTAGTCCATTTTCCCGCTCTATTTGCCNNAAT 267  
DB 306 ATTTGATACCAACACAGCAA--AGAAGACTGGGCAATTCGAAGCCCTCATTAATGGAT 363  
OY 268 TGTNNANATCTGCGCAGTAATGTGTATNNATTTTCTGACCGCAGCATCATGAGCT-G 326  
DB 364 TCTTTTAG:GTTGGCAGTAATCTTTCATCTAGATTTTCCGACCAACCATCTATGCTGG 423  
OY 327 TCTGNNTTGGCCTTTGAAGCTTG 349  
DB 424 GCTGTGTGGTCTTTGAAGGCTG 446

## RESULT 6

AAS74840 standard; cDNA; 1672 BP.

AAS74840;

13-FEB-2002 (first entry)

DNA encoding novel human diagnostic protein #10644.

Human; chromosome mapping; gene mapping; gene therapy; forensic;

food supplement; medical imaging; diagnostic; genetic disorder; ss.

Homo sapiens.

WO200175067-A2.

11-OCT-2001.

30-MAR-2001; 2001WO-US08631.

31-MAR-2000; 2000US-0540217.

23-AUG-2000; 2000US-0649167.

(HYSE-) HYSEQ INC.

Dmanac RT, Liu C, Tang YT;

WPI: 2001-639362/73.

P-PSDB: ABG10653.

New isolated polynucleotide and encoded polypeptides, useful in

diagnostics, forensics, gene mapping, identification of mutations

responsible for genetic disorders or other traits and to assess

bioldiversity -

Claim 1; SEQ ID No 10644; 103pp; English.

The invention relates to isolated polynucleotide (I) and

polypeptide (II) sequences. (I) is useful as hybridisation probes,

polymerase chain reaction (PCR) primers, oligomers, and for chromosome

and gene mapping, and in recombinant production of (II). The

polynucleotides are also used in diagnostics as expressed sequence tags

for identifying expressed genes. (I) is useful in gene therapy techniques

to restore normal activity of (II) or to treat disease states involving

(II). (II) is useful for generating antibodies against it, detecting or

quantitating a polypeptide in tissue, as molecular weight markers and as

a food supplement. (II) and its binding partners are useful in medical

imaging of sites expressing (II). (I) and (II) are useful for treating

disorders involving aberrant protein expression or biological activity.

The polypeptide and polynucleotide sequences have applications in

diagnostics, forensics, gene mapping, identification of mutations

CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS6197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at [ftp://wipo.int/pub/published\\_pcl\\_sequences](http://wipo.int/pub/published_pcl_sequences).  
XX  
SO Sequence 1672 BP; 423 A; 376 C; 451 G; 422 T; 0 other;  
Query Match 30.1%; Score 105; DB 23; Length 1672;  
Best Local Similarity 64.0%; Pred. No. 1e-25;  
Matches 181; Conservative 0; Mismatches 98; Indels 4; Gaps 3;  
OY 66 GGGGCGCCGTCATTCATCATCGGCTGCNACATGGGCTCCACCTTCACCCANANG 125  
DB 534 GCGAACCTGAGAACCAATTAAGTGTGTAACATGAGTACCTTACCCCTACCCAGAAATG 593  
OY 126 GAGTACGACGCTACTCT-TGGACAGACCTTTTNGAGAAATGTCATGGCTGANGG 184  
DB 594 GACACGACAAATATCTTAAGGACAGAAATCTCTTGGCAGAAATTAAGTTGGCTGAAGG 653  
OY 185 TTMAACTGACTCTGATACCATATTTTACCATGNCCTCCNATCCTTTTGTGCAATTT 244  
DB 654 TTGAAAGTACTGTGATACCATATTTGTACCGAAGACAGAA--AGAAAGGTGGAAAT 711  
OY 245 TCCCGGCTCTCATTTGCCNGNATGNTNANCTGGCAGTAAATGTGATNTNATTTT 304  
DB 712 TGAAGGCTCTCATTAACGCGATGTTTGTAGTGTGGCAGTAATGTTATATAGATTTT 771  
OY 305 CTGACGCGACCATCATGTGCT-GTCTGNNTTGGCTTTGAAGG 346  
DB 772 CTGACGCAACCATCATGTGCTGGCTGTGCTTGGGAAG 814  
RESULT 7  
AAC01263  
ID AAC01263 standard; cDNA: 435 BP.  
XX  
AC AAC01263;  
XX  
DT 06-OCT-2000 (first entry)  
XX  
DE Human secreted protein 5' EST, SEQ ID NO: 1261.  
XX  
KM Human: 5' EST; expressed sequence tag; secreted protein; cDNA isolation;  
KM gene therapy; chromosome mapping; ss.  
XX  
OS Homo sapiens.  
XX  
PN EPI033401-A2.  
XX  
PD 06-SEP-2000.  
XX  
PE 21-FEB-2000; 2000EP-0200610.  
XX  
PR 26-FEB-1999; 99US-0122487.  
XX  
PA (GEST) GENSET.  
XX  
PI Dumas Milne Edwards J, Duclert A, Giordano J;  
XX  
PI WPI: 2000-500381/45.  
XX  
DR P-PSDB: AAG01257.  
XX  
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for  
PT diagnostic, forensic, gene therapy and chromosome mapping procedures -  
XX  
PS Claim 1; SEQ ID 1261; 71pp + CD-ROM; English.  
XX  
CC The present sequence is one of a large number of 5' ESTs derived from  
CC mRNAs encoding secreted proteins. An ORF has been identified within the

CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs  
CC derived from 30 different tissues. EST sequences usually correspond  
CC mainly to the 3' untranslated region (UTR) of the mRNA because they are  
CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not  
CC well suited for isolating cDNA sequences derived from the 5' ends of  
CC mRNAs and even in those cases where longer cDNA sequences have been  
CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from  
CC mRNAs with intact 5' ends and can therefore be used to obtain full length  
CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,  
CC gene therapy and chromosome mapping procedures. They are used to obtain  
CC upstream regulatory sequences and to design expression and secretion  
CC vectors.  
XX  
SO Sequence 435 BP; 127 A; 83 C; 114 G; 108 T; 3 other;  
Query Match 22.3%; Score 77.8; DB 21; Length 435;  
Best Local Similarity 76.7%; Pred. No. 1.3e-16;  
Matches 99; Conservative 1; Mismatches 28; Indels 1; Gaps 1;  
OY 88 ATGGCTGCNACTATGCGCTCACCTTCACCCANANGAGTACGAGTACTTGGG 147  
DB 308 AAGCTCTTAATGACTTACCTTTCACCCAGAAATGGAACACAGATAATCTTAAGG 367  
OY 148 ACAGACCTTTTNGAGAAATGTCATGCTGANGGTTMAACTGACTCTGATACCAT 207  
DB 368 ACAGAAATCTCTTGGAGAAATAG-TTGGCTGAAGGTTGAACACTGACTTGTATACAT 426  
OY 208 ATTTTACC 216  
DB 427 ATTTGTACC 435  
RESULT 8  
AAS74836  
ID AAS74836 standard; cDNA: 473 BP.  
XX  
AC AAS74836;  
XX  
DT 13-FEB-2002 (first entry)  
XX  
DE DNA encoding novel human diagnostic protein #10640.  
XX  
KM Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KM food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200175067-A2.  
XX  
PD 11-OCT-2001.  
XX  
PE 30-MAR-2001; 2001WO-US08631.  
XX  
PR 31-MAR-2000; 2000US-0540217.  
XX  
PR 23-AUG-2000; 2000US-0649167.  
XX  
PA (HYSE-) HYSEQ INC.  
XX  
PI Drmanac RT, Liu C, Tang YT;  
XX  
PI WPI: 2001-639362/73.  
XX  
DR P-PSDB: ABG10649.  
XX  
PT New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
PS Claim 1; SEQ ID NO 10640; 103pp; English.  
XX  
CC The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome



```

FT intron 22107..23000
FT /*tag= e
FT exon 23001..23483
FT /*tag= f
FT intron 23484..23904
FT /*tag= g
FT exon 23905..24039
FT /*tag= h
FT intron 24040..24250
FT /*tag= i
FT exon 24251..24418
FT /*tag= j
FT intron 24419..26700
FT /*tag= k
XX
XX W09412162-A.
XX
XX PD 09-JUN-1994.
XX
XX PF 01-DEC-1993; 93WO-F100514.
XX
XX PR 01-DEC-1992; 92US-0988427.
XX
XX PA (WAER/) WAERRI A. M.
XX PA (ALAN/) ALANIN-KURKI L. M.
XX PA (AUVI/) AUVINEN P O V.
XX
XX PI Alanen-Kurki LM, Auvinen POV, Jaakkola PM, Jalkanen MT;
XX PI Leppaesam, Mali MS, Vihtinen TH, Waerri AM;
XX
XX DR WPI; 1994-199926//24.
XX DR P-PSDB; AAR55276.
XX
XX PT Syndecan stimulation of cellular differentiation - useful for
XX PT decreasing tumour growth used to promote hair growth
XX
XX PS Disclosure; Page 22-39; 65pp; English.
XX
XX CC The mouse syndecan gene enhancer, located 8-10 kb upstream from the
XX CC initiation site, is given in AA067901. Manipulation of the enhancer
XX CC can be used either to slow or prevent tumor growth or to promote
XX CC differentiation of specific cell types, e.g. epidermal cells to
XX CC promote hair formation. The complete mouse syndecan gene and its
XX CC encoded protein are given in AA067902 and AAR55276.
XX
XX SQ Sequence 26700 BP: 5742 A; 6559 C; 7233 G; 7165 T; 1 other;
XX
XX Query Match 14.6%; Score 51; DB 15; Length 26700;
XX Best Local Similarity 66.0%; Pred. No. 1.6e-06;
XX Matches 66; Conservative 0; Mismatches 34; Indels 0; Gaps 0;
XX
XX QY 1 TATTATATAGTACNCTGACAGTGTGNNGCACACTCTACGAGGCGCCAGATCTC 60
XX ||||||||||||||||||| ||||| ||||| |||||||||||||||
XX DB 1519 TATTATATAGTACAGTACGTACTCTCTTCACACTCCAGAGAGGCGCCAGATCTC 1578
XX
XX QY 61 ATTGTGGNGGCTANAGNCCNATATCATCGGCTGCNACT 100
XX ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX DB 1579 GTTATGATGGTGTGAGCACCATGTGGTTCGTGGGAATT 1618
XX
XX RESULT 11
XX AAV15946
XX ID AAV15946 standard; DNA; 26700 BP.
XX
XX AC AAV15946;
XX
XX DT 28-MAY-1998 (first entry)
XX
XX DE Mouse syndecan gene sequence.
XX
XX KW Syndecan; tumour suppression; tissue regeneration; enhancement;
XX mouse; wound healing; ds.
XX

```

```

OS Mus sp.
XX
XX Key
XX CDS
XX
XX FT intron
XX FT /*tag= a
XX FT /product= "syndecan protein"
XX FT /note= "contains introns"
XX FT 1..4377
XX FT /*tag= b
XX FT /number= 1
XX FT 4378..4443
XX FT /*tag= c
XX FT /number= 1
XX FT 4444..22025
XX FT /*tag= d
XX FT /number= 2
XX FT 22026..22106
XX FT /*tag= e
XX FT /number= 2
XX FT 22107..23000
XX FT /*tag= f
XX FT /number= 3
XX FT 23001..23483
XX FT /*tag= g
XX FT /number= 3
XX FT 23484..23904
XX FT /*tag= h
XX FT /number= 4
XX FT 23905..24039
XX FT /*tag= i
XX FT /number= 4
XX FT 24040..24250
XX FT /*tag= j
XX FT /number= 5
XX FT 24251..24418
XX FT /*tag= k
XX FT /number= 5
XX FT 24422..26700
XX FT /*tag= l
XX FT /number= 6
XX
XX FT intron
XX
XX PN US5726058-A.
XX
XX PD 10-MAR-1998.
XX
XX PF 07-JUN-1995; 95US-0472217.
XX
XX PR 07-MAR-1994; 94US-0206186.
XX PR 01-DEC-1992; 92US-0988427.
XX PR 01-DEC-1993; 93WO-F100514.
XX PR 07-JUN-1995; 95US-0472217.
XX
XX PA (ALAN/) ALANIN-KURKI L.
XX PA (AUVI/) AUVINEN P.
XX PA (JAAR/) JAARKOLA P.
XX PA (JALK/) JALKANEN M.
XX PA (LEPP/) LEPPAE S.
XX PA (MALI/) MALI M.
XX PA (VIHI/) VIHTINEN T.
XX PA (WAER/) WAERRI A.
XX
XX PI Alanen-Kurki L, Auvinen P, Jaakkola P, Jalkanen M;
XX PI Leppae S, Mali M, Vihtinen T, Waerri A;
XX
XX DR WPI; 1998-192770//17.
XX DR P-PSDB; AAM47156.
XX
XX PT New mouse syndecan gene sequences - useful for, e.g. suppressing
XX PT tumour growth or promoting tissue regeneration in processes such as
XX PT wound healing
XX
XX PS Claim 2; Fig 2A-O; 48pp; English.
XX

```





```

XX JP11164691-A.
PN
XX 22-JUN-1999.
PD
XX 14-APR-1998; 98JP-0103115.
PF
XX 03-OCT-1997; 97JP-0217181.
PR
XX (RIKA) RIKAGAKU KENKYUSHO.
PA
XX WPI; 1999-411831/35.
DR
XX New blastocyst cDNA - useful for library construction
PS
XX Claim 3; Page 26; 41pp; Japanese.
CC AAX85621-X85746 represent novel cDNA sequences that are isolated from a
CC mouse blastocyst cDNA library. The cDNA library was constructed from
CC C57Bl/6 mice. The sequence can be used as a source of primers, probes
CC and complementary DNA sequences.
XX
SO Sequence 178 BP; 55 A; 42 C; 39 G; 42 T; 0 other;

Query Match 14.3%; Score 50; D 20; Length 179;
Best Local Similarity 72.0%; Pred. No. 3...e-07;
Matches 59; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 TATTATATGTAAGTACACTGTGACAGTCTGNNACACACTCTACGAGGCGCCAGATCTC 60
   |||||
DB 160 TATTATATGTAAGTACACTGTGACAGTCTGNNACACACTCTACGAGGCGCCAGATCTC 101
   |||||

QY 61 ATTGTGGGNGGCTANAGCCNC 82
   |||||
DB 100 ATTACGGGTGTGTGAGCCAC 79

RESULT 14
AAV84328/C
ID AAV84328 standard; DNA; 5889 BP.
XX
AC AAV84328;
XX
DT 26-APR-1999 (first entry)
XX
DE Mouse A-myb genomic DNA.
XX
KM A-myb gene; oncogene; transgenic animal; null mutant; stem cell;
KM spermatogenesis; infertility; knockout mouse; animal model; ss.
OS
XX Mus sp.
XX
PN W09846726-A1.
XX
PD 22-OCT-1998.
XX
PF 07-APR-1998; 98WO-US06896.
XX
PR 15-APR-1997; 97US-0043353.
XX
PA (UTEM) UNIV TEMPLE.
XX
PI Halton K, Reddy EP, Toscani A;
XX
DR WPI; 1999-080737/07.
XX
PT Transgenic non-human animal with disrupted A-myb locus in the genome
PT - useful as model for male infertility and for studying
PT spermatogenesis
XX
PS Example 1; Page 51-55; 83pp; English.
XX
CC This is the nucleotide sequence of a genomic clone of the mouse

```

```

CC A-myb gene. The gene was isolated by screening a lambda Dash mouse
CC genomic library derived from the 129/J mouse strain, using a probe
CC derived from the 5' end of an A-myb cDNA clone that encodes the
CC DNA binding domain of the protein. Positive clones that contained
CC the 5.9 kb HindIII fragment were subcloned into pGEM 7ff(+) plasmid
CC vector. The 5.9 kb fragment contains exons 3, 4 and 5 of the gene
CC that code for the 5' end of the DNA binding domain of the protein.
CC The genomic clone was deposited as NRL B-21575. The invention
CC provides non-human animals in which expression of the A-myb gene is
CC suppressed. A transgenic non-human animal (especially a mouse), or
CC stem cell, having a disrupted A-myb gene in the genome, is claimed.
CC Also new are: (1) spermatogonia comprising recombinant DNA encoding
CC a functional A-myb polypeptide; (2) a targeting vector for
CC where one part of the polynucleotide contains a sequence homologous
CC to sequences in or flanking an A-myb gene, and which, when
CC integrated into the corresponding A-myb locus, functionally
CC disrupts the A-myb gene; and (3) methods of restoring fertility to
CC a subject who is infertile due to a defect in the A-myb locus, by
CC administration of A-myb or DNA encoding A-myb. Male A-myb -/-
CC animals can be used as models for male infertility and for studying
CC spermatogenesis. They can be used to test 'rescue' constructs and
CC other agents to treat male infertility.
XX
SO Sequence 5889 BP; 1828 A; 922 C; 1089 G; 2050 T; 0 other;

Query Match 14.3%; Score 50; DB 20; Length 5889;
Best Local Similarity 72.0%; Pred. No. 1.7e-06;
Matches 59; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 TATTATATGTAAGTACACTGTGACAGTCTGNNACACACTCTACGAGGCGCCAGATCTC 60
   |||||
DB 2148 TATTATATGTAAGTACACTGTGCTTTCAGACACCCAGAGAGGCGCATCATCTC 2089
   |||||

QY 61 ATTGTGGGNGGCTANAGCCNC 82
   |||||
DB 2088 ATTATGATGATGTTGTGAGCCAC 2067

RESULT 15
AAF63435
ID AAF63435 standard; DNA; 6094 BP.
XX
AC AAF63435;
XX
DT 14-MAY-2001 (first entry)
XX
DE Murine CD39-L2 genomic DNA sequence.
XX
KM Human CD39-like protein; apyrase; NDPase; platelet function inhibitor;
KM myocardial infarction; cerebral ischaemia; angina; arterial thrombosis;
KM cerebral artery thrombosis; platelet aggregation; inflammation;
KM apoptosis; autoimmune disorder; neurological disorder;
KM Alzheimer's disease; Parkinson's disease; cancer; CD39-L2; ds.
OS
XX Mus sp.
XX
PN W0200110205-A1.
XX
PD 15-FEB-2001.
XX
PF 09-AUG-2000; 2000WO-US21790.
XX
PR 09-AUG-1999; 99US-0370265.
PR 11-JAN-2000; 2000US-0481238.
PR 25-APR-2000; 2000US-0557800.
PR 26-MAY-2000; 2000US-0583231.
PR 30-JUN-2000; 2000US-0608285.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Ford J, Mulero JJ, Yeung G;
XX

```

Thu Oct 24 09:54:14 2002

us-09-728-446-819.rng

DR WP1: 2001-147489/15.

XX Polynucleotides encoding human CD39-like polypeptides, with apyrase  
PT and/or NDPase activity, which are useful in the treatment of  
PT pathological conditions caused by thrombosis (e.g. myocardial  
PT infarction) and inflammatory disorders -

XX Example 21: Page 106-108; 203pp; English.

XX This invention relates to polynucleotides encoding human CD39-like  
CC polypeptides with apyrase and/or NDPase activity. The polypeptides having  
CC Apyrase, including NDPase, activity are useful for inhibiting platelet  
CC function and can therefore be used in the prophylaxis or treatment of  
CC pathological conditions caused by or involving thrombosis or excessive  
CC coagulation or excessive platelet aggregation, such as myocardial  
CC infarction, cerebral ischaemia, angina, arterial thrombosis, cerebral  
CC artery thrombosis or intracardiac thrombosis, and conditions associated  
CC with venous thrombosis. CD39-L4 and CD39-L2 polypeptides are useful in  
CC modulating disease states (including platelet aggregation, inflammation  
CC and apoptosis) associated with ADP or other purinergic signalling by  
CC reducing the levels of NDPs. The polypeptides are also useful for  
CC prophylaxis or treatment of inflammation related disorders, such as  
CC disorders involving sepsis or systemic inflammatory response syndrome or  
CC SIRS (and associated conditions such as fever, tachycardia, tachypnea,  
CC disorders involving sepsis or systemic inflammatory response syndrome,  
CC cytokine overstimulation); autoimmune disorders such as thrombosis,  
CC atherosclerosis, acute pancreatitis, dermatitis, including psoriasis,  
CC cirrhosis, reperfusion injury, asthma, multiple sclerosis, arthritis,  
CC neurological disorders including neurodegenerative diseases, Huntington's  
CC depression, Alzheimer's disease, Parkinson's disease, cancer. The present  
CC disease, and amyotrophic lateral sclerosis; and cancer. The present  
CC sequence represents the murine CD39 like protein CD39-L2 genomic DNA  
CC sequence.

XX Sequence 6094 BP; 1589 A; 1471 C; 1445 G; 1504 T; 85 other;  
SQ

Query Match 14.3%; Score 50; DB 22; Length 6094;  
Best Local Similarity 72.0%; Pred. No. 1.7e-06; Indels 0; Gaps 0;  
Matches 59; Conservative 0; Mismatches 23;

QY 1 TATTATATAGTAGTACGCTGTGAGAGTTGTTGACAGACTTACGAGGCGCCAGATCTC 60  
|||||

DB 3329 TATTATATAGTAGTACGCTGTGAGAGTTGTTGACAGACTTACGAGGCGCCAGATCTC 82

QY 61 ATTGTGGGNGGCTPANGNCNC 82  
||| ||| ||| |||

DB 3389 ATTACGGGTGTGTGAGCCAC 3410

Search completed: October 23, 2002, 22:23:09  
Job time : 193 secs